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Irish H & V News

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IRISH H&V NEWS

JUNE/JULY 1987

IRELAND'S BUILDING SERVICES MAGAZINE

Exhibition Proliferation Must Stop!

WITH THE proliferation of trade exhibitions aimed at the building services sector reaching an all time high in recent months, *Irish H&V News* has heard reports back from many exhibitors who are totally dissatisfied with the current situation. Even before the recession the industry could really only justify one, fully-representative show every two years.

Yet here we are today — in the middle of a crisis — with nearly a half dozen different exhibitions annually. It simply does not take a genius or economic guru to see that the industry simply cannot support this practice.

A somewhat similar pattern of extra shows developed in the UK recently and they too have experienced the difficulty of inevitable indecisiveness on the part of potential exhibitors. The latest show in London bore

ample witness to this fact.

This problem is further compounded by the confusion would-be visitors find themselves in. Which exhibition is THE truly representative one?

Against this background *Irish H&V News* suggests that the industry as a whole — including tradespeople, the professionals and manufacturers/distributors — takes serious stock of the present situation.

In the electrical sector this has already been done with incredible success. Faced with the same problems all sectors came together and decided on one comprehensive RDS-based show.

The building services sector needs to do the same. *Irish H&V News* has already begun efforts to bring about this situation. If you have an opinion and/or input to make in this direction, please contact us immediately.

Indeed, maybe it's also time



• Jack Edl of Elkay (right) and Jim Anderson of Walker Air Conditioning signing the new distributor agreement recently which makes Walker exclusive distributor for Elkay in both the UK and Ireland. See also page 2.

that the building services sector had a fully-representative, all-industry Federation. There are a number of very active associations representing sectional interests but their

combined efforts on broader issues could be better served by a unified approach. Perhaps this too is an area worth investigating.

Victimisation for Association Activity

In these so-called enlightened times one would think that job victimisation for outside activities — especially when those activities serve only to complement and enhance the standing of one's employer in a particular industry — would be a thing of the past. Unfortunately, such it seems is not the case within the H&V/building services sector.

Presently, a person whose standing and reputation within the industry is rightfully acknowledged and accorded the respect it deserves for services rendered, is suffering because of a position held within one of the industry's representative associations.

Being the figurehead of this particular association, the person concerned has been singled out for undue criticism within the context of his own job as a result of action taken by that association.

To go into further detail would only embarrass the person concerned and not those whom it should. Nor would it make any difference to those sitting on the fence and who are in a position to help rectify the injustice.

Should this type of practice continue — or worse still become more widespread — the industry will lose the unpaid, voluntary services of its most reliable stalwarts. Additionally, it will frighten away those considering getting involved in a similar capacity.

CIBSE 87

NUREMORE II

15th - 16th - 17th MAY

SEE REPORT
ON PAGE 15

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The importance of choosing the correct liner is discussed — along with systems availability.



• Left: Ewing Patterson, NSAI Director. See page 19 for his comments vis a vis the Grundfos/NSAI Quality Assurance Awards.

• Below: Barlo sponsored the latest BTU outing at Newlands. See page 18.



• Nuremore once-again proved the strength and organisational ability of the CIBSE. See pages 15/16/17 for our report.



• EMA News and round up. See pages 20/21.

IRISH H&V NEWS

IRELAND'S BUILDING SERVICES MAGAZINE

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Irish Heating & Ventilating News circulates to key executives in the heating, ventilating, air conditioning, refrigeration, sanitary ware, plumbing and environmental control industries. Its circulation also includes energy managers, architects, designers, sanitary engineers, environmental engineers, housebuilders and building merchants in the 32 counties of Ireland.



H&V NEWS



• Traffic was brought to a standstill outside University College Cork recently when the Stone Danks boiler (pictured above) arrived on site courtesy of Hevac Ltd as ordered by H A O'Neill's. The particular unit in question has a dry weight of 23 tonnes and is metric rated at 20,000 LBS/Hr F and A 212°F with a working pressure of 150 psi. It was supplied complete with a Hamworthy dual-fired burner for operation with 3500sec oil and natural gas. The siting of the boiler presented some unusual difficulties in that the only access was over a 14-metre high wall. However, operating to a plan devised by H A O'Neill's and Hevac Ltd, Concord Engineering Crane Co had the boiler in position within the boiler house within two hours of its arrival on site.

European Court Victory in Dundalk Water Scheme Saga

At a specially convened meeting of the European Court in Luxembourg, the President, Lord Mackenzie Stuart, agreed to the use of Irish Standard, IS 188 Asbestos — Cement Pressure Pipes manufactured by Tegral Ltd of Drogheda in the improved public water supply for Dundalk. This was the Court's response to a request by the EEC Commission that the use of the pipe should be banned because the Irish Standard Mark is being used as a Technical Trade Barrier against imported pipes, particularly against Spanish pipe manufactured by Uralita.

In 1986 the Irish contractor involved, P.J. Walls Ltd of Dublin, wishing to introduce Spanish made pipes into Ireland, approached NSAI about the IS 188 Certification Scheme, and when it was explained that all Irish Standard Mark and other NSAI schemes are operated to ISO Guidelines which require access to overseas manufacturers, the Spanish manufacturer, Uralita, made a formal application for certification of their pipes to IS 188. Unfortunately, it was

the dimensional requirements which ensure interchangeability of all IS 188 pipe.

Recently P J Walls Ltd have requested NSAI to revise IS 188 in the form of a direct adoption of the international standard, ISO 160 which leaves the manufacturer to decide for himself the outside diameter which effects interchangeability. This request is at present being considered but the views of consulting engineers, designers and large scale users such as local authorities are not in favour of a change which would have the effect of making Irish Standard pipe incompatible in dimensions from such pipework already installed throughout the

country, as well as from the British Standard BS 486 used in Northern Ireland and Britain.

In addition, it would be necessary to consult with both the currently certified manufacturers, Tegral Ltd, and Toschi GmbH Germany, and other interested parties.

At present a revision of IS 188, based on currently certified products, has been prepared to include more direct references to the ISO 160 Test Methods and improved specification for stress loading on buried pipeworks. This revision is expected to be approved for publication shortly, having had a wide circulation for Public Comment in May 1985.

Trion Agent Appointed

TRION LTD of Andover, Hants, England, leaders in commercial and industrial electronic air cleaners and dehumidifiers, have announced the appointment of Elenco Electric Engineering, Dublin as their exclusive Irish agent.

Elenco Electric Engineering is a leading electrical contractor having undertaken major

installations within both industrial and commercial areas throughout the country.

In recent months Elenco Engineering and Trion have worked together in promoting Trion's dehumidifier range, on both the domestic and commercial side. This close co-operation has now resulted in the exclusive agency.

Walker Sign with Elkay

Walker Air Conditioning Ltd have signed a new distributor agreement with Elkay Manufacturing Company of Illinois, to market their range of water coolers and drinking fountains in the UK and Ireland.

Walker specialise in all types of refrigerated water chilling equipment complete with refrigerant circuits, and the Elkay products will expand their range further. They will be marketed through the Walk-Air Dealer Network which is being developed through the London office of Walker Air Conditioning.

Elkay are a leading brand name in drinking coolers and fountains as far as world sales are concerned and continue the Walker tradition of dealing with market leaders.

Calor Board Appointments

MR COLM Lindsay and Mr Tony O'Hara have been appointed to the board of Calor Teoranta. Mr Lindsay who is Commercial Director with Calor has been with the company since 1964. Mr O'Hara, Operations Director, joined Calor in 1971.



• Pictured above is Frank Kelly of Dan Chambers Ltd. Unfortunately, the 'gremlins' were loose on our last issue with the result that Frank's surname was incorrect. Apologies Frank and we hope that this clarifies any confusion which may have arisen.

A loud two-tone booming burp.

When a male orang utan is angry he makes sure that his feelings are known.

He takes a deep breath which makes him swell up terrifyingly and then releases the air to produce what has been described as a "loud two-tone booming burp".

Just the opposite effect, in fact, to that achieved by the elegant range of Carrier packaged and split air conditioning units.

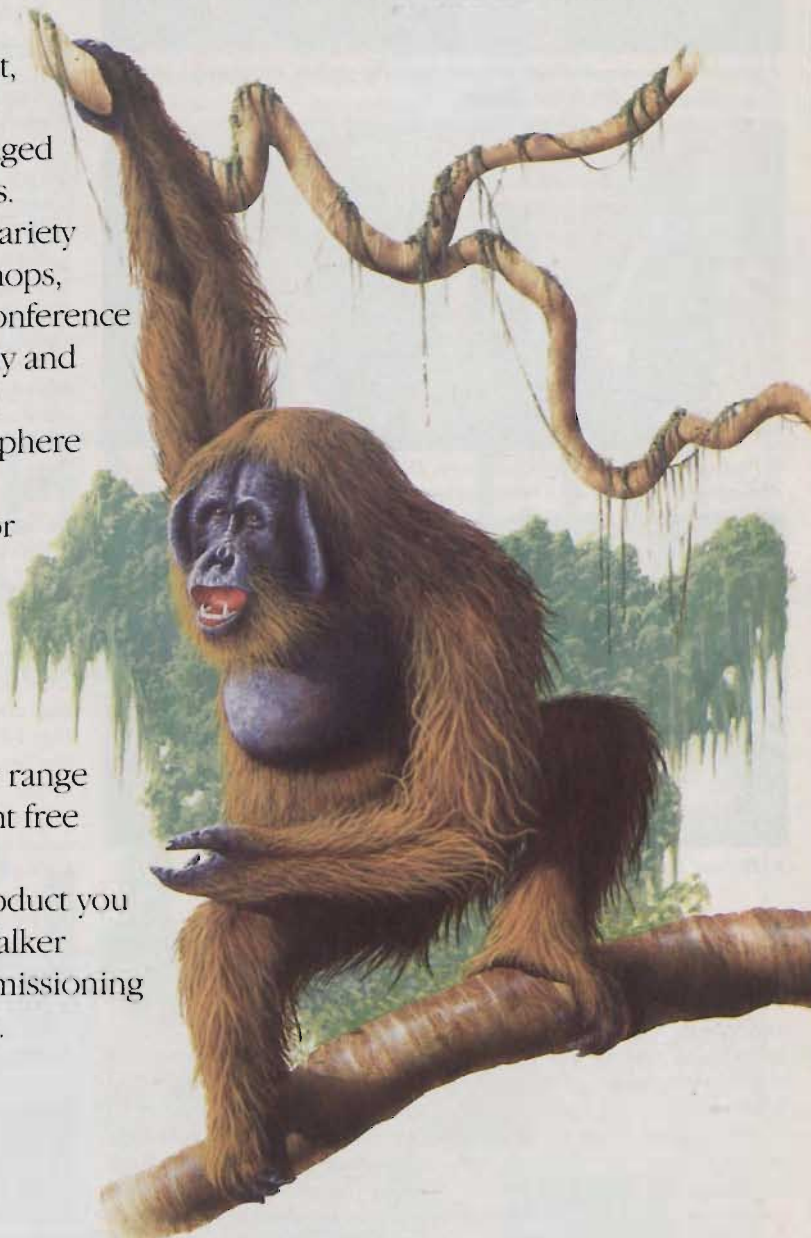
Designed for a wide variety of applications from offices, shops, pubs and clubs, restaurants, conference areas and factories, they quietly and efficiently provide a clean and temperature controlled atmosphere to make life more bearable.

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H&V NEWS

Major Launch from GEC



• Colm Traynor and Hugh O'Neill, Fire Prevention Department, Dublin Corporation with Jim Wilde, Woods.



• Ned Crean and Michael O'Doherty, Delap & Waller with Willie Brown, Managing Director, GEC. In the background are the new Series 2100 fans.



• Dermot Spain, GEC with Peter Dowd, Jacobs International.

AT A special reception in GEC Distributors' Hendrick Street premises in Dublin late in May, Product Manager for heating and ventilating, Dermot Spain, introduced invited guests to a whole new range of products from the company's portfolio.

The main thrust of the evening was on Woods of Colchester with the launch in particular of ILC — in-line centrifugal — fans and the 2100 Series. Present to assist with the launch were Henry E Nicholl and James A Wild, Sales Director and Product Manager respectively for Woods.

To further augment their
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 June/July 1987

displayed within a mini-exhibition context, a 10-minute video film giving the Woods of Colchester story was also run at intervals.

Woods ILC fans have all the advantages of axial-flow fans combined with the benefits of the radial fan pressure characteristics. The resultant lower speeds offer an ideal solution for quiet in-line airflow for all types of applications.

Manufactured as they are to the highest specifications and standards, this range of fans ensures complete reliability in operation and is available in a choice of six sizes depending on requirements.

As for the versatile Woods 2100 Series, this is more than just a new range — the whole design technology represents a totally new concept. The Series is the result of detailed marketing analysis and intensive research and subsequent engineering and production controls — all designed to produce a reliable though versatile fan range to suit the widest variety of requirements at a competitive price.

Series 2100 represents two principal ranges — Profiles 2 & 3 for all buildings; and Profile 5 for ducted systems.

While the features of both vary according to intended use, the main specifications are similar and include:

Motors

Construction: Woods 2100 Series Profile 5 fans utilise a totally-enclosed squirrel-cage induction motor. The motor carcass is constructed from extruded aluminium with the end covers manufactured in die-cast aluminium.

Protection: Single-phase motors include integral overheat protection which is self-resetting. Resetting can be over-ridden, where required, by connecting to a starter coil.

The motor assembly provides protection to IP55: it is hose proof with drain plugs fitted or modifiable to IPW54 with drain plugs removed. Spigots are sealed to achieve IP55 while the shaft is sealed through the drive-end cover by a lip seal. When fitted on the motor, capacitors are pre-wired and comply with IP55.

The sealed-for-life prelubricated ball bearings are designed for continuous operation in the temperature range from -40°C (-40°F) to +50°C (+122°F) and starting down to -20°C (-4°F).

Insulation: Insulation is to Class F.

Ratings: Ratings comply with BS5000 Part 99 (1973) and IEC 34-1.

Impellers

Construction: A one-piece moulding in polypropylene with five asymmetrically-spaced aerofoil section blades. Included is 20 per cent glass-coupled reinforcement with a black pigment addition, ensuring maximum strength with ultra violet stabilisation.

All are now available ex-stock from GEC Distributors Ltd in Hendrick Street, Dublin 7.

Wright Computer Air Conditioning Seek Irish Representation

WRIGHT AIR Conditioning (Products) Ltd, the Birmingham, England, based manufacturers of the Compac and Mini Compac range of air conditioning systems for computer rooms, are looking for an agency or distributor to represent their sales in the Republic of Ireland.

Michael Brown, Wright's Export Sales Director, currently exploiting the company's successful mission in North America, is seeking a local company who are preferably well versed in the intricacies of computer room environmental requirements.

"Ideally, we would like to sign up a sales and contract installation company" explains Mr Brown, who not only could represent our range of air handlers, chillers, RCU's split level systems and accessories direct to end users, perhaps through M&E consultancies, but also be capable of offering full installation packages. An efficient maintenance service back up is also essential, as the computer world cannot afford hardware 'downtime' through breakdown or environmental inefficiency."

Details from Wright Air Conditioning (Products) Ltd, 140 Sandy Lane, Camp Hill, Birmingham, B11 1BW. (Tel: Birmingham 773 8421).



• Reg Bennett of Duggan Bros, (Contractors) Ltd has been elected President of the Construction Industry Federation. Mr Bennett, who is a former chairman of the Mid West Branch of the Federation, succeeds Mr Oliver O'Mahoney, the outgoing president of the CIF.



• Alex Wadkin, joint Managing Director Apex Fire, presents the perpetual Apex Fire Trophy to the winner, Des Hughes of Dublin Corporation following the 11th Annual Apex Fire outing to Newlands Golf Club. Des had an excellent score of 45 points. Included in the photograph are (from left) Christopher Flood, TD; Des Hughes; Sean Flood, Joint Managing Director and Alex Wadkin. Runner-up was Tom Kearney with 42 pts; third placed was Brendan Short with 41 pts.

Flogas Expansion

FLOGAS PLC is to expand its cooking, heating and industrial markets for LPG in the south from a new £1.5m marine terminal and storage plant at Tivoli, Co Cork.

With this major investment in Cork, Flogas storage capacity will be doubled in Ireland. The company's original terminal is located at Drogheda, Co Louth, serving Northern Ireland and the Republic.

Site works have commenced at Tivoli and Civil Engineering Consultants are D J Fitzgibbon & Partners, Cork. Flogas have placed the contract for the storage vessels with Whessoe (Ireland) valued at £350,000, in spite of more competitive quotes from West German suppliers. An announcement on the construction contract and civil works will be made in the near future.

Aqualisa The Finest Showering Environment

QUALITY, PERFORMANCE, safety and good appearance are the hallmarks of the Aqualisa shower range for which Unidare plc have been agents in Ireland since June of last year. Tommy Timmins, Sales Manager of Commercial Products at Unidare, told us that they have absolute confidence in these products and that since they have taken over the agency sales have shown a marked increase and are still rising rapidly.

The Aqualisa shower valve and head design allows a flow comparable to pressurised shower systems and also has a separate temperature control for perfect hot and cold water blending within the valve — the most responsive thermostat, which controls the water temperature within $\pm 1^\circ\text{C}$. For the many Irish homes which have to cope with hard water, the Aqualisa is ideal as it

incorporates in-built de-scaling features.

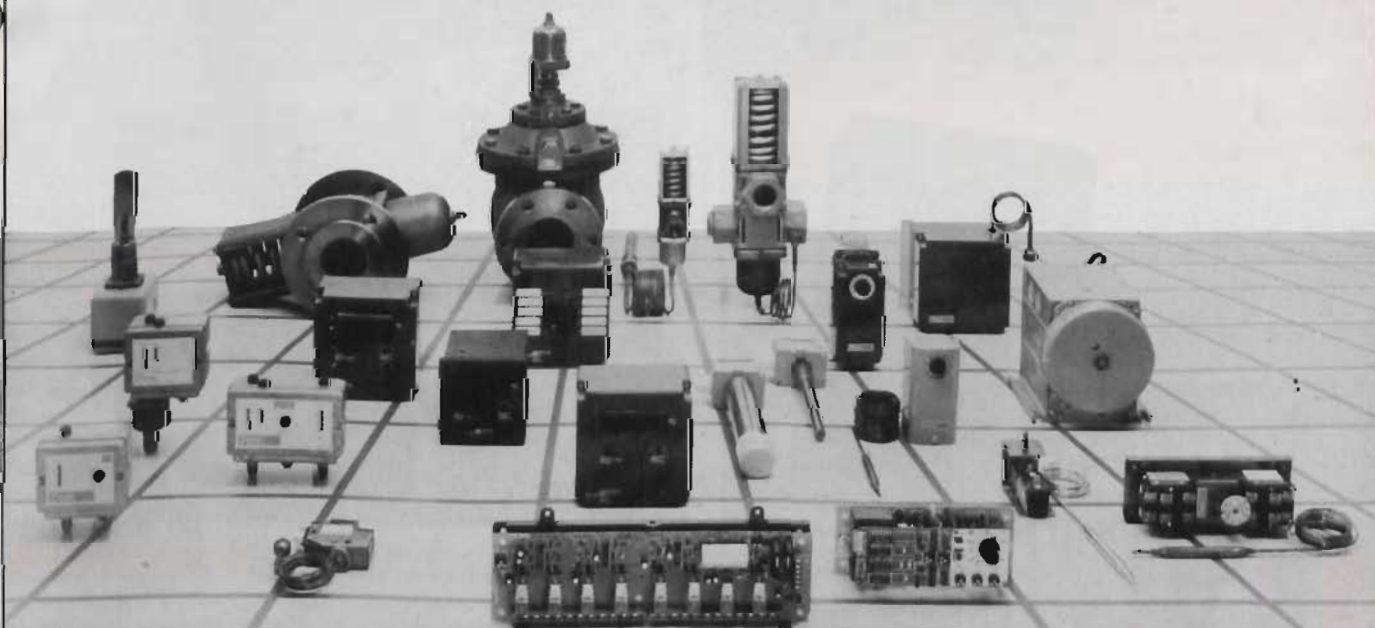
From the point of view of safety both thermostatic and manual valves are fitted with temperature limit stops which may be set for extra safety and comfort. Also, in the unlikely event of hot or cold supply failure, the Aqualisa gives a shutdown time of approximately one second.

Apart from the practical advantages of the Aqualisa range these showers are second to none in appearance and a choice of finishes enables them to fit in perfectly with any decorative scheme.

Attractive display boards are available for stockists and Aqualisa showers are already available throughout the country from builders' providers, hardware stores and specialist bathroom shops.

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H&V NEWS

BTU's Pars and Birdies?



• Ted Burke of T Burke & Co Ltd, Overall Winner of the Portmarnock Trophy being presented with his prize by Steve Parker of Selkirk.



• Ray Toner, winner of Class 2, receiving his prize from Steve Parker of Selkirk.



• Tom Lappin, winner of Class 1, receiving his prize from Steve Parker of Selkirk.

A VERY large crowd attended the 6th Annual Hevac/Selkirk Outing at Portmarnock Golf Club.

While the weather looked ominous in the early morning, Hevac Ltd called in some favours and consequently arranged perfect conditions during the full days golf.

Portmarnock as always proved to be a fine test of ability and endurance. The winner of the Portmarnock Trophy and Selkirk Cup was Ted Burke of T Burke and Co Ltd.

Ted, playing off a handicap of 10, recorded a very good score of 37 Stapleford points. Winner of Class One was Mr T Laffin and winner of Class Two was Ray Toner of F&E.

This particular outing has now become something of a highlight in the heating trades social calendar and is considered one event not to be missed.

Ken Jean and Stephen Parker of Selkirk presented the many prizes after a very enjoyable meal.

Management Buy-Out at IIF

THE MANAGEMENT of Irish Industrial Fabricators Ltd (IIF), the Cork-based firm specialising in mechanical and electrical services and process pipe work, has acquired 100% of the equity of the company from John Sisk & Son Ltd, Ireland's largest construction company. IIF, founded in 1963 and purchased by John Sisk & Son Ltd in 1978, will operate on an independent basis from Capwell Works, Kinsale Road, Cork. The buy-out includes IIF's 14,000 sq ft workshop and fabrication plant.

IIF has contracts in hand worth £900,000 and employs 120 people (160 at peak). The IIF Management team involved in the buy-out are Andy O'Gorman, General Manager; John Burke, Financial Controller and Company

Secretary; Edwin Kenny, Marketing Manager; Tom Callaghan, Mechanical Contracts Manager and Kevin O'Connell, Electrical Contracts Manager.

Commenting on the buy-out (for an undisclosed purchase price) Kevin Kelly, Managing Director, John Sisk & Son Ltd, said: "IIF's scope for growth was clearly inhibited by its close association with its parent company. This made it difficult for competing general contracting firms to place certain specialist contracts with IIF. In addition, clients and consultants were often reluctant to place general contracting and specialist services with companies within the same group. Now IIF — under new ownership — will be able to grow to its full potential."

Computer Air Conditioning — for your computer room

Representation Required

Wright Air Conditioning, the leading British environmental engineers to the computer user industry, are seeking representation in the Republic of Ireland.

Ideally, they seek a company with established sales contacts and experience in the computer market place and who would be prepared to give total attention to the well-known Compac and Mini Compac range of close control air handling systems.

Interested parties should write in confidence to:

Mr Michael F J Brown
Export Sales Director
Wright Air Conditioning
(Products) Ltd
140 Sandy Lane
Camp Hill
Birmingham
B11 1BW

H&V NEWS



• The main attraction at Trabolgan holiday village is the huge sub-tropical swimming pool with an Olympian sized rollercoaster water slide, fountains and a wavemaker which at intervals transforms the pool into a miniature sea. This large high-activity swimming pool gives rise to enormous amounts of humidity within the pool hall which needs to be carefully controlled both for the comfort of occupants and to protect the building fabric. This need not rely on the traditional evacuation of costly heated air into the outside atmosphere but can be achieved by installing energy-saving dehumidification plant operating in the heat pump mode. Walk-Air AF packaged dehumidification units have been developed specifically for use in swimming centres and at Trabolgan two Walk-Air AF packaged dehumidification units extract moisture from the pool hall air, while recovering the latent heat which is mixed with incoming fresh air and recirculated to heat the pool hall.

Shires 25-Year Guarantee

ACRYLIC BATHS from Shires Ireland Ltd are now guaranteed for 25 years by the company. Brendan Whooley, Managing Director announced recently.

The guarantee applies to 5 mm and 8 mm acrylic baths and is the only one of its type available to the Irish building industry.

Announcing details of the new 25-year guarantee, Mr Whooley said that Shires

Ireland Ltd will now guarantee free replacement should any defect occur, either in the materials or as a result of inferior workmanship, provided the bath has been correctly installed by a qualified plumber. Full details and terms of the guarantee supplied with each bath.

Shires acrylic baths are manufactured to Irish specification IS 263.

John Sullivan/John Aherne — for service

JOHN SULLIVAN who is widely known throughout the building service industry — especially in service and maintenance circles — is now running his own company under the name of Sovereign Engineering Ltd from premises located in Glen Industrial Estate, Broombridge Road, Dublin 11, (Tel: 309800).

A partner in the new venture is John Aherne who is widely known in the refrigeration and food industry — especially in the industrial refrigeration sector.

The two directors track record in the industry goes back over many years and they now bring this experience and expertise to bear on this new venture with renewed enthusiasm.

Essentially, Sovereign Engineering offers prospective clients a full service and maintenance ability covering air conditioning, refrigeration, heating and ventilation. Additionally, special projects can also be undertaken such as low temperature water without the addition of glycol down to +2 degrees C; low humidity applications using lithium chloride wheels; and close control of temperature and humidity for process control and computer rooms.

John Aherne looks after the day to day management of service, maintenance, and installation work, and the company also employs two other full time engineers.

J&H Heating Expand

AFTER ONLY 18 months in business J&H Heating Ltd, who have already established a significant reputation as service and maintenance specialists, are now expanding with the formation of another trading company — J&H Sales — to market the products of two companies for whom they have been appointed exclusive Irish distributors.

Principal director John Pattison — who runs both companies from 11 The Grove, Seatown, Swords (Tel: 405478) — told *Irish H&V News* that this new development will not detract from the service/maintenance side of the business but rather complement it. The names being represented were carefully chosen because of the nature of the products involved.

The first is a powerful new pipe-freezing kit from Wavecare Ltd in the UK. The system it employs is quite unique and is capable of freezing down 15-54 mm pipework in minutes. It is easy and fast to set up and extremely accurate so that

correct application is inevitable. An ice plug lasting 30 minutes or more, with the possibility to be extended still further, is the result.

The other new product from J&H is a revolutionary soldering tongs which has effectively made burnt joists, damaged skirting boards, fire risks and all the other such hazards associated with soldering in difficult areas/situations a thing of the past. It is particularly safe and efficient where both capillar and end-feed copper fittings in the 15, 22 and 28 mm ranges are being soldered.

By simply positioning and spring-tensioned tongs with their replaceable carbon blocks around the fitting to be soldered, and applying current via a low-voltage transformer, heat is generated which allows the solder to flow and effect fast secure fusion of fitting to tube.

The 6V tongs operates from a standard power socket and is simple and cheap to operate.

National Maintenance Association

THE NATIONAL Maintenance Association (NMA) was established by the IIRS in response to a demand from industry for a co-ordinated approach to maintenance problems. The main objective of the Association is to raise the level of maintenance standards, management and practice, in Ireland by:

Promoting the application of modern maintenance techniques through local technical meetings;

Establishing contacts between maintenance personnel;

Encouraging the exchange of information;

Keeping companies up to date on latest international developments.

The annual direct cost of maintaining and repairing plant and equipment presently in Ireland is estimated to be £600 million. To this must be added the costs due to loss of production, scrap and poor quality caused by machine

defects and depreciation through wear and tear. This can account for three times as much again.

Because maintenance costs can be controlled and in many cases substantially reduced, an effective maintenance management programme can have undeniable financial benefits to any company.

The National Maintenance Association organises conferences, courses, seminars and workshops to foster a better appreciation and promote the application of cost-effective maintenance programmes in manufacturing and service industries.

WHO SHOULD JOIN?

Membership — Any company with a maintenance function.

Associate Membership — Maintenance equipment suppliers, agents and consultants.

Further details from Kenneth A O'Reilly at Tel: 01-370101.

H&V NEWS

Radiator Manufacture Thriving

HAMILTON HEATING Products Ltd has reported a very successful sales growth following its decision a year ago to diversify into radiator manufacture. The Kilkenny-based company has already established a strong presence in a market sector in which imports have been increasing in recent years. Last year these imports amounted to over £6 million — a 60% increase on the previous year's figure.

According to Managing Director Richard Hamilton, the Veba closure prompted the company to enter the radiator market. Following market research and product studies, it was decided to concentrate on the industrial sector, a specialist niche that offered special opportunities for product innovation, while also offering a standard range of domestic sizes.

Initially, Hamilton made

their radiators from tubes of rectangular section but subsequently the company hit on a major innovation by rolling the panels from coil sheet which combines the ability to roll to any length the customer might require while providing increased options of panel appearance. This has given the company a major competitive edge in this market and sales have accelerated as a result.

For further information contact Richard Hamilton, Hamilton Heating Products, The Fairgreen, Thomastown, Co. Kilkenny. Tel: 056 24411.

'Trailer Centres'

O'MEARA CAMPING & Holidays have opened a new Trailer Division, which is a logical and complementary move, to their 28 years established company.

Irish Trailer Centres, the newly-formed company, can

now offer a selection of 16 multi-purpose trailers of varying sizes and designs, covering the commercial and industrial trailer markets.

There is a small lightweight run-about trailer; there's one for the DIY enthusiast, with a wind down leg to support it, together with drop down front and rear tail gates.

Irish Trailer Centres, who are based in the same complex as O'Meara Camping — 160A Crumlin Road, Dublin 12 — are ideally placed to provide individual trailers to suit the varied requirements of the builder (both large and small); the carpenter, farmer, greensman and greengrocer. For the roofer, there is a light builders trailer without brakes, a solid wooden floor, ladder rack and drop down tail gate.

Irish Trailer Centres are based at Sunshine Estate, Crumlin Road, Dublin 12 and also have branches at Cork and Limerick. Their showrooms are open to the public six days weekly and also on Sunday afternoons.

New K-Flex Distributor

ELECTRIC SURFACE heating specialists — Thomas French & Sons (Electrical) Ltd — has concluded a new distribution agreement with Modern Plant Ltd of Dublin. The company will represent French's interest in the 32 counties of Ireland, through its head office in Dublin, its Cork branch operation and its Belfast-based subsidiary, Modern Plant Components.

Under the agreement, Modern Plant will offer the full range of K-flex brand surface heating equipment, including pre-terminated and parallel circuit tapes, and heating cables, customised heating blankets and jackets, and anti-condensation heaters for electric motors. As well as marketing off-the-shelf products, the company will also offer complete freeze protection and temperature maintenance systems, in association with Thomas French's computer-aided design resource.

Turbo, the UK brand leader, and number one high performance range of in-line duct fans.

The casing is manufactured from tough moulded glass-fibre, the unit is powered by the superb Ziehl-Abegg external rotor motor for maximum performance, and silent speed control.

Now HOT SPOT motor protection is fitted as standard to Turbo fans which means that any overloading/overheating or motor burn-out can be fully monitored.

Turbo is backed by a host of ancillaries, send for details of the Turbo range.



TURBO IN-LINE DUCT FANS

AVAILABLE VIA NATIONAL DISTRIBUTORS



roof units group

BELFAST ENVIRONMENTAL SUPPLY CO. LIMITED (0232) 53329
DUBLIN DAN CHAMBERS LIMITED 01-720448



NEW PRODUCTS — LITERATURE

Water Heaters from Chaffoteaux

The new Britony IIT instantaneous gas-fired water heater has been developed from the brand-leading Britony IIA balanced flue multipoint, using the latest applied technology.

Designed specifically to meet British/Irish market needs, the new range will harmonise with any kitchen or bathroom styling and fit unobtrusively into a run of kitchen wall units. If space is limited they can be wall-mounted under a work surface or even inside a wall cupboard. A durable and easy-care white facia panel is complemented by the metallic anthracite grey colour of the body with a detachable decorative skirt which covers gas and water pipe connections.

The two controls have been redesigned for maximum convenience to the user. The gas control ignites the pilot and adjusts the volume of gas to the burner, and the water temperature selector allows variable settings according to requirements.

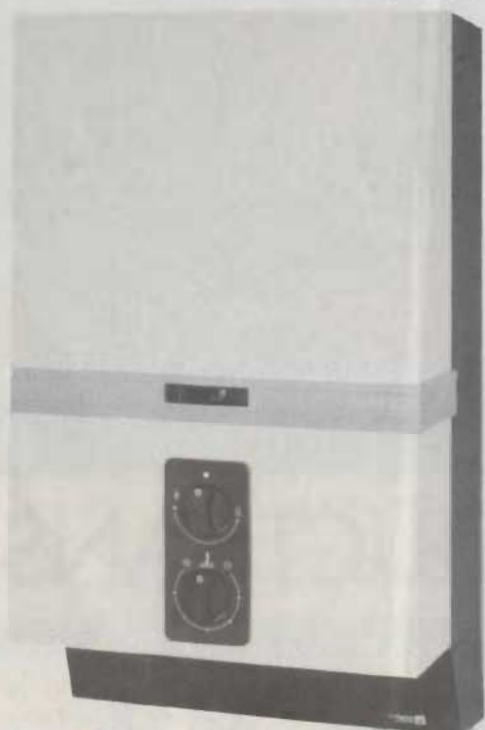
The Britony IIT is a compact 655 mm x 395 mm x

253 mm with a nominal output of 22.7kW, manufactured to BS5386 Part 1 and the strict quality control requirements of BS5750. The standard flue set supplied is suitable for wall thickness of 75-355 mm although a flue set for wall thickness up to 610 mm and a terminal guard are also available.

The Britony IIFF is modelled on the Britony FF and incorporates a fan-assisted flue which allows installation in situations where no suitable external wall is conveniently available. The slimline flue can be fitted from inside the building which is of great advantage to installers replacing old open flued gas appliances or electric water heaters in blocks of flats. A 600 mm flue is supplied with the Britony IIFF as standard but extension flues up to three metres are available.

Dimensions of the Britony IIFF are identical to the Briton IIT with a nominal output of 22.4kW.

Details from Taney Distributors Ltd, Unit 4, Riverside Industrial Estate, Dublin 12. (Tel: 508120).



• The new Britony IIT balanced flue, gas-fired multipoint water heater from Chaffoteaux which is distributed by Taney Distributors.



• Automatic balancing valve, type 45-9, from Valve Services (Cork).

Automatic Balancing Valves from Valve Services

In heating and chilled water distribution networks, worthwhile savings in energy and improvements in operating efficiency can be achieved, if the circuits are correctly balanced.

Samson automatic flow control valves have been specifically designed for this purpose. Unlike manual balancing/metering valves, they maintain the correct balance of a distribution circuit, even when pump heads change and sub-circuit flow rates vary. The valves are equally suitable for constant or variable volume systems. However, for the latter, they are really essential, since variable volume systems cannot be balanced satisfactorily with manual valves.

The mode of operation of automatic balancing valves is as follows. By means of a calibrated restrictor, the flow rate passing through the valve is measured and compared with a pre-set value. If the flow rate is higher than the set point, then the valve immediately throttles down, until the flow rate is back at the required level.

Commissioning these valves on site is quick and simple. No flow measurements have to be taken and there is no need for the system to be filled with water.

All that has to be done is to pre-set the measuring throttle by reference to a simple graph which shows the adjustment required against flow rate. It is also possible to supply the valves pre-set and tagged from the factory, so that no commissioning work is required on site.

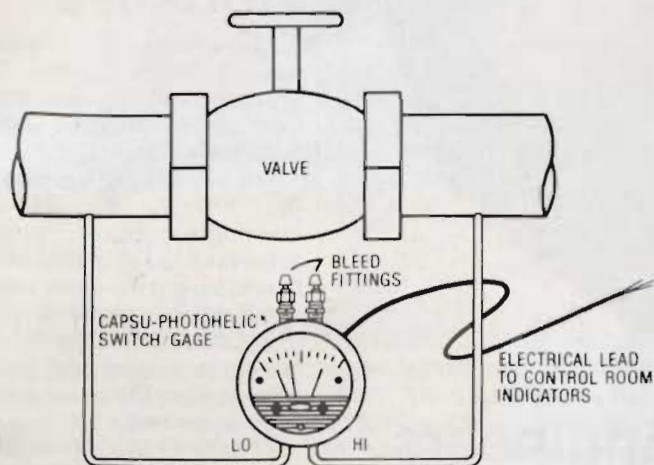
The range of automatic flow control valves, which can be supplied, covers sizes from 15 to 250 mm. The smaller sizes are available with brass bodies and coupling ends and the whole range can be supplied with flanged ends and cast iron or cast steel bodies. All automatic flow control valves are self-operated and no maintenance is required. They are well tried items of equipment and many thousands are operating satisfactorily in heating and chilled water systems throughout the world.

A technical paper is available, which discusses in some detail the theoretical and practical considerations, relating to the balancing of water distribution networks.

Copies of the paper and further technical details are available from Valve Services (Cork) Ltd, Hollymount Industrial Estate, Hollyhill, Cork. (Tel: 021 392766); Telex: 75070.

NEW PRODUCTS

Capsu-Photohelic Switch Gauge



- For simple, reliable flow-direction monitoring contact Manotherm.

When used with water or other compatible liquids, a brass body Dwyer Capsu-Photohelic differential pressure switch/gauge serves as a simple, reliable flow direction monitor. It will signal flow direction in a pipeline at a remote location, such as in a control room. Taps in the wall of the pipe on each side of a conveniently located valve provide a method to indicate a small pressure drop due to a slightly restricted flow even when the valve is full open.

A low range zero-center Capsu-Photohelic switch/gauge registers flow in one

direction as an upscale reading and opposite flow as a downscale reading. With the setpoints adjusted each side of zero and consistent with the pressure drops involved, the switch/gauge relay closures provide the required control of the flow direction indicators.

This application is one of 109 applications for Dwyer controls and gauges described in the Dwyer Application Handbook.

Details from Manotherm Ltd, 4 Walkinstown Road, Dublin 12, (Tel: 522355); Telex: 24467.

Microset Digital Handwheel

Crane Fluid Systems has introduced Microset — a new style digital handwheel for its flow measurement and regulating valves, sizes 50mm (2) and smaller.

Microset provides accurate valve setting indication by means of a digital readout. Its design ensures the reading is clear and cannot be misinterpreted, even after insulation. Microset incorporates a gear operated counter mechanism which counts the number of complete handwheel turns from 0 to 4, and the part of

each turn in divisions of one tenth (0.1). A total of 40 distinct settings are available.

Microset is being phased in on new production. It is interchangeable with the vernier style handwheel fitted to existing valves which, if required, can be converted to Microset.

Technical details are contained in a full-colour publication available free on request from the Publicity Department, 107-109 High Street, Chipping Ongar, Essex CM5 9DX.

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☐ General information and brochure of new exhibits

IH&VN

NEW PRODUCTS — LITERATURE

High Accuracy Thermometer

Kane-May Ltd have introduced a new thermometer to their wide range of products. Called the KM200, it features a new ergonomically-designed ABS case, combined with high accuracy, at low cost. Used with PT100 platinum resistance sensors, it gives high accuracy of $\pm 0.2^{\circ}\text{C}$ over the range -100 to $+199^{\circ}\text{C}$.

Two specially-designed probes for immersion in liquid and measuring surface temperatures are also available which clip to the instrument case either for use, or for storage. For



• The KM200 thermometer from S W Carty.

tougher applications, such as chilled meat, there is a more robust "chisel" type probe. Probe accuracy is in accordance with BS1904 1984 (IEC741:1983) Class-B.

The KM200 is housed in a specially-designed case which enables the instrument to be used very easily and is light enough to be unobtrusive in the pocket. A matching bench stand is supplied as standard.

Details from S W Carty & Sons Ltd, 48A Robinhood Industrial Estate, Robinhood Road, Dublin 22, (Tel: 508046).



• The new Digitron H&V Kit.

H&V Kit for Engineers

Digitron have compiled a low-cost, time-saving kit for the heating and ventilating engineer. Housed in a robust, purpose-built carrying case, the kit includes a differential thermometer, air/surface probe and two velcro pipe sensors.

The popular 3202 portable thermometer offers the latest in high-performance, low-power technology. Model 3202 can be used as a conventional thermometer measuring temperatures between -50°C to $+950^{\circ}\text{C}$ and

as a differential thermometer with two plug-in probes measuring temperatures between -300°C to $+300^{\circ}\text{C}$ automatically. The unit offers high accuracy, resolution and repeatability with an ergonomically designed case for simple one-handed operation of all function switches.

For further information contact Digitron Instrumentation Ltd, Mead Lane, Hertford, Herts, SG13 7AW, (Tel: 0992 587441); Telex: 81517 DIGIST G.

VA 100 Small Room Extractor

Vent-Axia has introduced a range of 100 mm extractor fans with modern design and technical features intended to achieve a high standard of ventilation in a wide variety of small room applications.

The 12 model range incorporates the quality and reliability on which Vent-Axia has built its reputation. VA 100 is designed for installation in walls, ducts or windows and partitions, and offers a choice of features to match specific requirements.

- Choice of timers for fixed or adjustable delay
- Quiet operation
- Automatic electro-shutter

to help prevent back-draught

- Pullcord switch for manual operation
- Telescopic wall liner
- Neon light
- Window model is designed for varying fixing thicknesses
- Attractive styling
- Matching air replacement grille

The VA 100 range is designed for easy installation and simple maintenance, combined with a long trouble-free life.

Details from Vent-Axia Ventilation Ltd at Dublin (01) 903188 and 903418.

Unidare/Aqualisa

Aqualisa shower systems are designed specifically to provide high volume flow from the low pressure water supplies.

The key to their success is the unique method of thermostatic control which achieves a speed of response to pressure at the valve inlets some eight times faster than most others. This allows up to twice the flow of any other shower from the same static head pressures.

The Aqualisa shower valve has a separate flow and temperature control and a carefully positioned 'thermostatic pace-maker' sensing element inside the valve which reacts instantly to achieve a temperature control tolerance of 1°C . The coiled coil bi-metallic thermostat activates a honed stainless steel shuttle in both axial and rotary movements creating a perfect blend of hot and cold water.

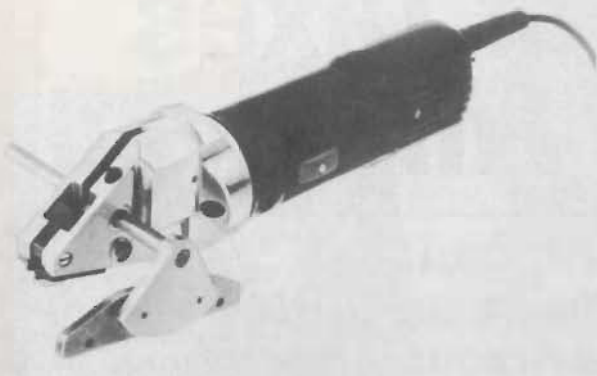
Within this system it is also safe for water to be drawn off at other points in the household while the shower is in use, because the thermostate responds immediately to eliminate dangerous temperature fluctuations. In the event of either hot or cold water supplies failing, the safety shut-down will operate in less than $1\frac{1}{2}$ seconds for ultimate protection against scalding.

Aqualisa shower valves can be purchased separately, without the shower kit. They can be used simply as a control mechanism for the pumped shower systems that are becoming increasingly popular with massage and variable flow heads etc.

These systems typically offer 13.5 - 27 litres per minute flow rate which is well within the temperature control function of the valve.

Details from Unidare PLC, Unidare Works, Jamestown Road, Finglas, Dublin 11, (Tel: 771801).

NEW PRODUCTS — LITERATURE



• *Draco Blechscher S100IN.*

Draco Shears

Draco precision products for use in the heating and ventilation field include a comprehensive range of tools and equipment such as metal and plastic cutting shears.

Draco shears utilise a double shear cutting action that enables shearing of both flat and folded sheet in straight and curved lines without distorting the cut edges. Cutting speeds of

eight metres per minute of SWG 18 steel using the S100IN and seven metres per minute of SWG 14 steel using the 1013 models.

The 1013/5 model is particularly suited for cutting spiral and seamed ducting.

For details contact IMTECH Services, 33 The Warren, Worcester Park, Surrey, KT4 7DH, (Tel: 031 337 6254); Telex: 24667.

Jetmaster from Fenton

Hampshire Engineering (Neil H H Fenton), the Greystones, Co Wicklow-based manufacturers and repairers of ovens, refractories etc, have been appointed agents for the Republic of Ireland for the Jetmaster range of convector fires, convector solid fuel fires and gas coal-effect fires.

Full-colour brochures detailing the range are available from the company from its address at Windlesham House, Church Road, Greystones, Co Wicklow, (Tel: 874310).

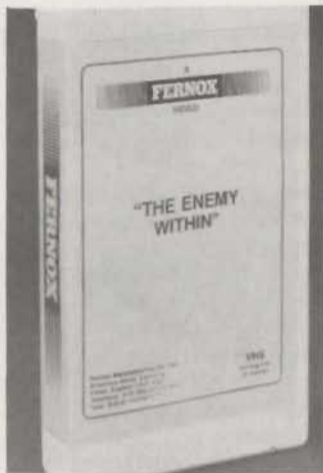
Wyse & Ballentine

Two new full-colour brochures are available from Wyse & Ballentine on the latest introductions from Meynell Valves — the Victoria (9 LPM from 1 metre head) and the Power Shower thermostatic shower ranges.

Both incorporate unique features and are designed for

very specific applications, each one suited to a different requirement.

For copies of the leaflets and further information contact Wyse & Ballentine Ltd, 17 Ulster Street, Phibsborough, Dublin 7, (Tel: 307070).



• "The Enemy Within" is the title of a new educational video from Fernox on central heating corrosion. Copies from Fernox Manufacturing Co Ltd, Britannica Works, Clovering, Essex CB114 02, (Tel: 0799 85811); Telex: 818282.

Thermoair Air Curtains

ThermoAir has introduced a completely new series of air curtains on to the European market. Developed specifically for modern shopping precincts, they are robust, quiet and efficient and of particular importance to contractors and users.

Three models of the ThermoAir air curtains are currently offered from 1200 to 2,000 cfm, with heating capacities between 14 and 19.8 KW. When required, air inlet filters and speed controllers can be provided.

Another completely new line introduced by the company is a series of centrifugal roof-top ventilators. Made with rugged housings in highest quality polyester for long maintenance-free life, seven basic models are offered with 15 possible fan combinations, providing up to 3750 m³/h with maximum static pressures of 365PA.

Further details from ThermoAir Ireland Ltd, Industrial Estate, Strawhall, Carlow.

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Inspector of Taxes and the Self Employed

All self-employed taxpayers will by now be familiar with a Revenue notification (remember that pink sheet) distributed with the 1986/87 Returns of Income entitled, "Examination of Financial Accounts by the Self Employed".

New procedures introduced by the Revenue Commissioners under the above title will have significant implications for the self-employed by fundamentally changing the methods used by the Tax Authorities in reviewing the accounts submitted to them for tax purposes. The new procedures will, for the majority of self-employed persons, represent a simplification of the system used by the Authorities to process tax computations and accounts. For the chosen few on the other hand, it will represent a far more rigorous and detailed exercise. The essential outline of the new systems application is as follows:-

- The examination of the accounts of the self-employed will in future be conducted on a selective basis;
- This change of approach is intended to lead to a more efficient system of agreeing tax liabilities;
- All accounts will get a basic examination and those showing acceptable results will be accepted without delay;
- Accounts which do not show acceptable results will be given an in-depth examination;
- The Revenue Commissioners expect full co-operation from taxpayers and advise that taxpayers whose basic books and records are deficient, should now seek professional advice to remedy those defects.

Unacceptable Features: The following features in the accounts of the self-employed have been cited by the Revenue as being unacceptable:-

- Inadequate drawings and poor rate of gross profit;
- Understatement of gross receipts;

By Peter O'Neill, Taxation Manager with Chapman Flood & Co., Chartered Accountants (and former Inspector of Taxes).

- Unexplained cash introduced, loans received and growth of wealth;
- Information obtained in recent VAT inspections possibly leading to VAT underpayments;
- Recent PAYE outdoor reports indicating poor records;
- Estimated assessments in earlier years not appealed or confirmed on appeal without accounts;
- Third party information.

Whether these features are present or not will of course be judged in the context of information built up on the Revenue File of the taxpayer, such as trends in previous years accounts, knowledge of local conditions and the opinion of the tax district of the accountants ability and standards.

Revenue Procedure: The Revenue emphasise that this is not a back duty investigation but rather a searching examination of the latest accounts received. It will be carried out in the taxpayers own district. Most of the preliminary enquiries will centre on the defects in the books and records from which the taxpayers accounts were prepared. An important part of these early enquiries will be to establish the extent to which estimations were necessary in preparing the accounts and whether private bank accounts were operated in the year by the taxpayer (and spouse) and whether they were inspected when the Business Accounts were being prepared.

Unless the accountant can at this stage satisfy the Inspector

with regard to his misgivings, the Inspector will request to see the books and records from which the accounts were prepared. It is also envisaged that a face to face interview will take place between the taxpayer, his accountant and the Inspector.

Refusal to co-operate: If the taxpayer does not co-operate the Revenue have legal powers which they may at their discretion use. They include:-

- The power to require the production of books and records;
- Authority to enter premises by authorised officers of the Revenue and thereby to remove and retain for a reasonable period books, records, accounts etc;
- Listing the taxpayer to appear before the Appeal Commissioners, thereby placing the onus on the taxpayer to prove that the Inspector's assessment is too high;
- Serious cases may also be transferred to Investigation Branch.

Back years: Whether back years are also investigated will depend on the extent of the understatement discovered in the current year. It will depend on "the degree of culpability ranging from carelessness to deliberate concealment and the element of hardship by reference to age, health and ability to pay, on the co-operation afforded and on the speed at which the settlement for the current year is reached".

Settlement penalties/Interest: A settlement with the Inspector

must include payments of the agreed amounts plus penalties and interest if they arise. The taxpayer may, in certain circumstances, pay by post-dated cheque. A period of spread, however, will normally not be more than 12 months and interest will arise on post-dated cheques which fall due more than two months after settlement date. All income levies, if appropriate, will apply to settlement figures.

Penalties and interest will be calculated by reference to a percentage of the tax. There will be no addition for penalties and interest where the current year only is involved. Inspectors will have a wide discretion in this matter and will take into account the factors already outlined regarding the opening of earlier years, i.e. hardship, age etc.

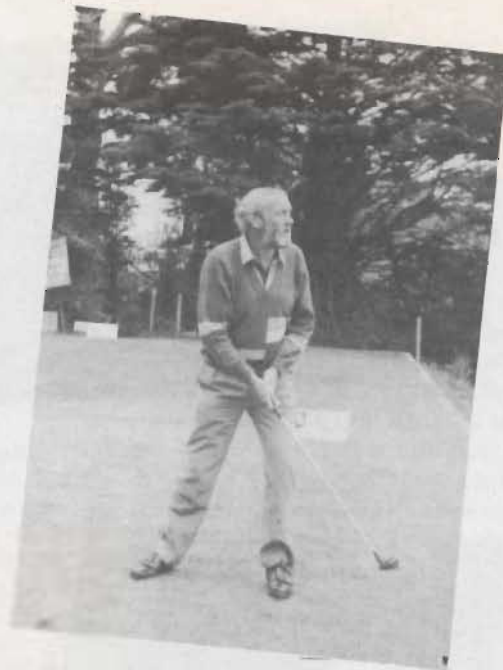
CONCLUSION: The Revenue are using what is in effect a "carrot and stick" approach. The accounts of the self employed, which show acceptable results can expect an early agreement to his/her accounts under this new system. Those that don't will have settlement delayed due to the in-depth examination.

It is worth noting that the "new approval" is more or less following the current practice in the UK. According to accountants there, the main item which initiates these in depth enquiries is a low gross margin as compared with similar trades. However, the success of the approach in the UK has yet to be assessed.

The system is only a short time in operation here and only applies to self-employed non-limited companies at present. It is expected, however, to be enlarged to encompass limited companies in the future.

In the meantime, businessmen would be well advised to set about rectifying any deficiencies in their accounting records so that their accounts will be acceptable to the Revenue.

NUREMORE CONFERENCE REPORT



CIBSE Nuremore Conference 1987

The CIBSE Nuremore Conference has become a central occasion of the building services sector and this year's event, held on the weekend of 15-17th May, was as popular as ever. The willing generosity of sponsors is ready testimony to the value of the event as a coming-together of all sectors of the industry — contractors, manufacturers, supplies and consultants. The format of the weekend was largely unchanged from last year. A 9-hole golf tournament on the Friday; an 18-hole and a beginners competition on the Saturday; a 9-hole golf scramble on the Sunday, a snooker knock-out competition, and the auction plus raffle on the Saturday evening, presided over as ever by the inevitable P J Clonan. But the importance of the weekend is the opportunity it gives for people in the industry to meet each other; and no doubt, engineers being engineers, there was as much shop talked as not. The following is a brief picture-report on the weekend with competition results on page 17.



NUREMORE CONFERENCE REPORT



NUREMORE CONFERENCE REPORT

FRIDAY

9 Hole Stableford: First: F. Benson, 22 pts; Second: O. Reddy, 19 pts; Third: J. Sweetman, 19 pts; Fourth: B. Keaveney, 18 pts; Fifth: S. Crawley, 18 pts; Sixth: B. Moore, 18 pts.

Saturday

18 Hole Stableford: Overall Winner: P. Cole, 40 pts;
CLASS 1: First: O. Reddy, 39 pts; Second — S. O'Connor, 38 pts; Third: F. Benson, 35 pts; Fourth: G. Baker, 34 pts; CLASS 2: First: E. Egan, 39 pts; Second: T. Conlon, 38 pts; Third: F. Mullins, 37 pts; Fourth: M. McMahon, 36 pts; CLASS 3: First: S. Moran, 37 pts; Second: L. Lynch, 36 pts; Third: D. McGrory, 31 pts; Fourth: E. O'Brien, 30 pts.
Front Nine: First: S. Cagney, 23 pts; Second: B. Moore, 20 pts.
Back Nine: First: S. Crawley, 17 pts; Second: C. Garvey, 17 pts.

Non-Handicap Competition

9 Hole Stableford: First: N. Memory, 22 pts; Second: B. Costelloe, 22 pts; Third: S. Barry, 14 pts; Fourth: P. O'Dowd, 13 pts; Fifth: E. Phillips, 12 pts; Sixth: R. Mason, 12 pts; Seventh: B. Daly, 11 pts; Eighth: T. Cusack, 11 pts.

Sunday

9 Hole Scramble: First: T. Egan, D. Egan, P.J. Doyle, 23 strokes; Second: R. O'Connor, S. O'Connor, T. O'Connor, 23½ strokes; Third: R. Mason, G. Molloy, T. Murray, 27 strokes; Fourth: J. Baker, B. Moore, C. Garvey, 27⅔ strokes.

Snooker Competition

Winner: S. O'Connor;
Runner-Up: T. Purcell.

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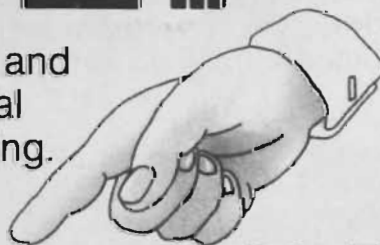
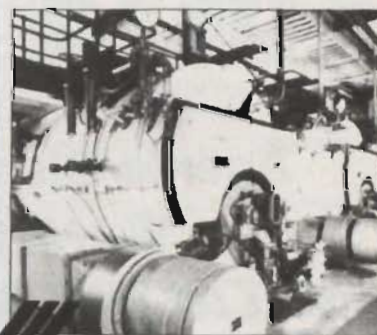
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Barlo at Newlands

The Barlo-sponsored outing at Newlands Golf Club on 4 June attracted an excellent turnout with over 60 participating in the golf despite the wet start to the day. Their endeavour was rewarded though with the weather picking up significantly as the day wore on and resulting in some good scores. Competition was fierce for the top honours which was hardly surprising given the quality of the beautiful prizes put up by Barlo.

The final results were as follows:-

Winner — John Usher (40 pts) off a handicap of 12 (Back Nine P Delaney).

Class 1

Winner — Pat Dunphy (38 pts) off a handicap of 12 (Back Nine T Gleeson);

Second — Terry Gleeson (38 pts) off a handicap of 12;

Third — Brian Farrell (37 pts) off a handicap of 4 (Back Nine M Wyse).

Class II

Winner — Tony Gillen (39 pts);

Second — Eddie Egan (38 pts) (Back Nine Noel Cullen);

Third — Noel Cullen (38 pts).

Class III

Winner — Paddy Delaney (40 pts);

Second — Noel McKirwin (39 pts) (Back Nine T Scott);

Third — Tom Scott (39 pts).

Visitors

First — George Hayden with 39 pts;

Second — Noel Stanly with 37 pts;

Third — Brendan O'Neill with 36 pts.

Back Nine

First — Ray Byrne with 21 pts (Last, John Loughlin);

Second — John Loughlin (Last Six, M. McDonagh).

Front Nine

First — John White with 21 pts (Last Three: D O'Sullivan, M Lawlor);

Second — Des O'Sullivan with 21 pts (Last Five, J Lawlor).



• Overall Winner: John Walker (40 pts) with John English, BTU Captain and Leo McCoo, Barlo.



• Winner Class I: Pat Dunphy with John English and Leo McCoo.



• Winner Class II: Tony Gillen with John English and Leo McCoo.



• Walker Class III: Paddy Delaney with John English and Leo McCoo.



• Leo McCoo, Barlo (sponsors) making his brief speech after the dinner. Seated are (from Left) Eddie Egan, John English, B O'Neill and N O'Gorman.

NETALINE

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Netaline ADP Ltd.,
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Merseyside, WA9 3DT.**

Grundfos/NSAI Quality Assurance Award

At a reception in the prestigious National Concert Hall last month, the Minister for Energy — Mr Ray Burke TD — presented the Grundfos/NSAI "Striving for Quality Assurance Award" to three recipients — Seamus Homan of Seamus Homan Associates; Joe Morgan and Frank O'Kane of Mercury Engineering and Dick McElligott of FKM Engineering.

Within the building services sector of the building industry quality assurance has emerged in recent years as a discipline in itself requiring special attention. Essentially, what is involved is the correct specification, installation and final commissioning of every aspect of building services.

Prior to its emergence great emphasis was placed on the necessity for quality assurance in respect of the product and hardware involved but the procedures for installing such products often negated their worth. Quality assurance as pertaining to the building services professions aims to redress this problem.

Consequently, to encourage and reward efforts at achieving greater quality assurance control, Grundfos (Ireland) Ltd in association with the National Standards Authority of Ireland (NSAI), devised the "Striving for Quality Assurance Award". Three categories are defined — consulting engineers; mechanical contractors; and electrical contractors.

It is important to note that the awards are presented to the practices themselves with building nominations only being examined in conjunction with office procedures and the manner in which these are implemented on site.

NSAI's Role

While the idea was originally conceived by Grundfos, the award scheme is a joint effort with the National Standards Authority of Ireland. In fact, it is the Authority which makes the final inspection and adjudication. NSAI Director Ewing Patterson plays a major role in ensuring the authenticity of the judging procedure while it is his colleague John Purcell who does the actual inspections. At the presentation ceremony Mr Patterson said:

"It is my pleasure today to explain this year's "Striving For Quality Assurance" Award and, in doing so, to set the scene for the presentations which will be made shortly by the Minister.

"The National Standards Authority is that part of the Institute for Industrial Research and Standards which was set up at the beginning of 1985 with the specific role of developing the use throughout industry — both manufacturing and service — of quality standards to improve competitiveness and provide customer satisfaction.

"For quality systems our main Irish Standard is IS 300 and it provides a framework for developing the quality assurance disciplines and techniques for a wide range of enterprises. It was published over two years ago on the basis of international work then in progress and I am particularly pleased to have the opportunity to report to you that this international work has now reached its conclusion in the form of the world-wide Quality Standard ISO 9000, and at the moment the NSAI is proceeding to revise the Irish Standard to have it published shortly under the dual number IS 300/ISO

9000. This will be a valuable endorsement for our export orientated companies.

"The Grundfos Award is arranged by NSAI on the framework of IS 300. For this, its second year, we consulted at the planning stage with colleagues from your industry through the CIBSE and the MEBSCA in the preparation of an improved questionnaire system. Once nominations were received, a further questionnaire was sent to the project owners or managers. A short list was then selected and eight companies, both consultants and contractors were visited by an Inspector from the NSAI Quality Inspectorate. An adjudicating panel of Grundfos and NSAI then based the award on the Inspector's reports.

"I am delighted to tell you that there has been a tremendous increase in the interest in the "Striving for Quality Assurance" in its second year, partly, I am sure, assisted by the improvements we made ourselves.

"I would also like to make special mention of the effort made by the companies visited in facilitating our Inspector. In all the visits it was apparent that great effort is being made to involve as many people as possible in the company with the goal of improved Quality, with special arrangements being made which reflected this. This was as true for those companies which are not among today's winners as it is for those who are.

"All the companies concerned have illustrated a commitment to "Striving for Quality" and, on behalf of the NSAI, I would like to thank Grundfos for providing an opportunity for public recognition for such a vital effort in our national interest."



• Joe Morgan, Director, Mercury Engineering Ltd with Dick McElligott, Managing Director, FKM Engineering Ltd, Mr Ray Burke, Minister for Energy and Seamus Homan, Seamus Homan Associates, at the presentation of the Grundfos/NSAI Striving For Quality Assurance Awards at the National Concert Hall.



• Pictured at the Grundfos/NSAI Quality Assurance Awards at the National Concert Hall were NSAI Director, Ewing Patterson with Minister for Energy, Mr Ray Burke TD, and Denis Walshe, Grundfos (Ireland) General Manager.

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National Conference

The Association's seventh National Conference was held in Jury's Hotel, Dublin on 19 May last. In total there were over 100 industry personnel who participated with five key speakers delivering papers designed to cover all aspects of the theme — Energy Policy: Its Role in Economic Recovery.

Minister for Energy & Communications, Mr Ray Burke TD, performed and official opening and in his address he complimented the EMA for its many wide-ranging activities appertaining to energy management.

The keynote address was given by Fergus Cahill who, rather than reassure his audience, outlined a scenario which — in his view — would lead to further oil crises in the future. Indeed, he went so far as to state that we were already in the midst of an oil crisis of sorts which he called "uncertainty". Inhibited exploration, short-term expedients and delayed production by the major producers were, he said, evidence of this.

His conclusion was that the only certainty "is that the future will retain its ability to surprise and confound us" with regard to energy management and how we approach the subject.

Still on the subject of exploration and the subsequent exploitation of whatever oil resources are available to us, Mr "Dusty" Miller was quite critical of the legislation and licence terms which, he said, insist too much on compulsory drilling in too short a time instead of a more scientific approach.

Left to itself, Mr Miller suggested that the industry would have drilled only half the present number of wells (100 approximately) but with more purpose and intent. However, he said that he believed the Government had now recognised the inadequacies of the existing system governing exploration and drilling and that he looked forward to the matter being corrected in the near future.

Other papers presented were by Colm McCarthy who proposes, among other things, that we in Ireland should be linked into a European grid for electricity and gas; Dr Aidan O'Boyle, who spoke on the relationship between energy management and having a

WHO TO CONTACT

For details and further information on any of the EMA's proposed activities contact Harry Pattison, National Organiser, Energy Management Association, IIRS Building, Glasnevin, Dublin 9, (Tel: 01-370101).

successful industrial policy; Derek A Fee whose paper was entitled: "The Rational Use of Energy in Industry: EEC Actions"; and Don Menzies who gave an overview on investment in energy.

Travelling Seminar/Exhibition '87

It is proposed to run a short series of six seminars and exhibitions at six regional venues in October next. The exhibition, which will be held in each location over a period of two days, will be opened by the Mayor or other local dignitary.

The plan is for a total of 20 exhibitors to participate. These companies will exhibit products of interest to industry, commerce, the public sector and the domestic sector such as: Insulation; Heating controls; Electronic energy management systems; Boilers (oil/gas/solid fuel); Circulating pumps; Data

Dates and venues: Ballybofey — Monday 5th/Tuesday 6th October; Castlebar — Wednesday 7th/Thursday 8th October; Athlone — Friday 9th/Saturday 10th October; Cork — Monday 12th/Tuesday 13th October; Limerick — Wednesday 14th/Thursday 15th October; Kilkenny — Friday 16th/Saturday 17th October.

logging systems; Domestic heaters/cookers (oil/gas/solid fuel); Domestic back boilers; Double glazing; and IIRS Energy Technical Information.

In addition there will also be an "Open Forum" in the exhibition hall when a panel of experts will lead a discussion and deal with public queries.

"Industrial Energy Utilities" Course/Workshop (second day) — This course is open to non-EMA members as well as EMA members. Topics covered in the course will include some or all of the following — Heating and ventilating systems; Heat pump applications in H&V systems; Standby generators and C-generators; Latest developments in lighting technology; Small to medium electronic energy management systems; Price prospects for oil, gas, electricity and solid fuel; and Local energy case histories.

The Course/Workshop will be adequately supported with all the necessary visual aids, hardware and software. The speakers will be leading specialists from the industry in Ireland. Course Fee is £45 per delegate. Fee includes coffee, lunch and course attendance certificates.

Note: The technical programme for the Course/Workshop will change from venue to venue to allow for the special requirements of each area.



● Harry Pattison, EMA organiser, with Ray Burke, TD, Minister for Energy.

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• EMA Regional Committee representatives at the Annual General Meeting in Dublin on 18 May.

Energy Management Awards 1987

The annual awards are designed to encourage the development of energy measurement and accounting in industry. There are three award categories and there will be prizes for the first and second in each category. There will be one overall award for the Energy Manager of the Year. The main categories are:

- Energy auditing, monitoring and target setting;
- Efficient use of energy;
- Energy saving through new technology applications.

Energy auditing and monitoring is the ongoing measurement of energy consumption, and the comparison of these measurements with quantified standards. An effective monitoring and target setting system provides not only an accurate measure of performance compared with standards, but it also identifies opportunities for improved performance. Where such energy saving opportunities are identified and targets are set against an agreed action programme, energy monitoring and targeting is actually in place and a

programme of energy efficiency optimisation is underway.

The award will be made for the best practical example in the area of process energy saving, substitution and fuel use. The judges will be looking for evidence of achievement of efficiency and appropriate fuel selection and use with regard to overall effectiveness.

This award will be made for the best practical example of innovation and development in the area of new technology or a new application of existing technology to manufacturing process and services energy use.

The overall winner will receive the Energy Manager of the Year Award. This will go to the person whose project, in the view of the judges has the most merit. The selection will be made from the winning entries in the above three categories.

A panel of independent judges appointed by the Energy Management Association, the Irish Gas Board — who are the sponsors — and IIRS will adjudicate on the entries.

The presentation of awards will take place at a special function hosted by the sponsor BGE on Wednesday, 11 November 1987.



• Pat Keenan, Marketing Dept., ESB with Cormac Gordon, Manager, Energy Services, IIRS.



• Left to right: Pat Duffy, Moy Insulation Ltd with Vincent Duffy, Irish Shell Ltd, David Taylor, IIRS and Gerry O'Neill, IAWS.

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Ireland Hosts International LPG Gatherings

Trinity College was home to one of the world's most important LPG events in mid-June. Over 400 delegates from close on 30 countries attended the combined European Liquefied Petroleum Gas Exhibition and Congress and the inauguration of the World LPG Forum.

For the first time ever, an Irishman — Denis Shelly, Chairman, Calor Teoranta — is President of the European LPG Association and it was mainly through his efforts that the Congress and Exhibition were held here. He was also a prime mover in the setting up of the new World LPG Forum.

Both the exhibition and congress were opened by the Minister for Energy and Communications, Ray Burke, TD, who subsequently hosted a State reception for delegates and partners in the Royal Hospital, Kilmainham.

In his opening address the Minister stressed the importance and relevance of LPG as an energy source in Ireland, with consumption last year in the order of 140,000 tonnes, 15% of which was produced in the State. Continuing, the Minister said that 30% of all Irish households use LPG as their primary means of cooking, while one-third use LPG heaters for space heating. He also stated that bulk LPG is used by over 6,000 industrial customers, including some of the world's best known names.

"Turning to the world scene, there is no doubt that the fall in oil prices which occurred in the first half of last year has changed expectations of oil consumption for the rest of the century. Current analysis by various international organisations show that the demand for oil will increase again in the years ahead. Given this development, the outlook for LPG consumption appears brighter than for some time".

Quoting OECD statistics, the Minister said that consumption of LPG has been increasing in absolute terms. European demand alone is expected to rise by 41% from about 17 million tonnes in 1980 to 24

million tonnes by 1995. Mr Burke also highlighted the promotional factors of LPG, particularly its cleanliness, its record for safety in Ireland and its highly-competitive price.

The conference theme was "marketing" and this was reflected throughout the conference and exhibition. Seán Condon, Chief Executive, Condon International (and formerly head of Córas Tráchtála) delivered the keynote address, appropriately titled: Marketing — The Key to the Future of LPG. Other Irish speakers were Mr P J Kennedy, Marketing Manager, Calor Teoranta, (LPG the Controlled Solution); and John Dunne, Chief Executive, Calor Consulting (Successful Marketing Through Better Technology).

One of the most interesting papers delivered over the three-day European Congress and World Forum was Marketing and Safety in India by Mr B K Bakhshi. How unusual to hear a speaker say that in marketing terms there is no need to think of gaining new customers — India currently provides 1.5 million new customers per year — the marketing demands primarily relate to safety and the

corporate demand is primarily supply.

The Congress, Exhibition and World Forum were all impressively mounted with exhibitors reflecting the huge internationalism of the delegates. Surprisingly, Ergas was the only Irish company to take part in the main exhibition area. Calor cleverly took over the recently — and beautifully — remodelled atrium, while Flogas seemed to have concentrated their efforts and resources on a private hospitality suite.

During the course of the Congress, an interesting meeting of experts from a number of different countries and varying disciplines took place. At a subsequent press conference, Michael Hoare, General Manager, BP LPG International, announced that the LPG industry will pursue further research and development into the benefits of LPG being added to diesel-propelled vehicles through the reduction of soot particles in diesel emissions.

In Nancy, France, tests with 16 buses have shown a reduction by an average of 50% but up to 90% at the most critical point of changing from

first to second gear. In Padua, Italy, 10 buses are being converted to the new system. In Ireland, Calor Teoranta has already introduced the new system on two of its vehicles.

The final day saw the setting up of the World LPG Forum, the first worldwide organisation for the LPG industry. In an impressive ceremony, attended by the Attorney General, John Murray, SC, and members of the diplomatic corps, the founder-members from countries throughout the world, signed the statutes of the new organisation. It was a triumph for Irish ingenuity and organisation and particularly so for Denis Shelly, Chairman, Calor Teoranta, who as President of the European LPG Association was one of the prime initiators of the World LPG Forum. Also, for Stewart Kean, President, Utility Propane, Elizabeth, New Jersey, who was elected first President of the new world organisation, thus completing a unique family double as his brother, John, is currently President of the International Gas Union, and was guest speaker at the inauguration of the World LPG Forum in Trinity College.

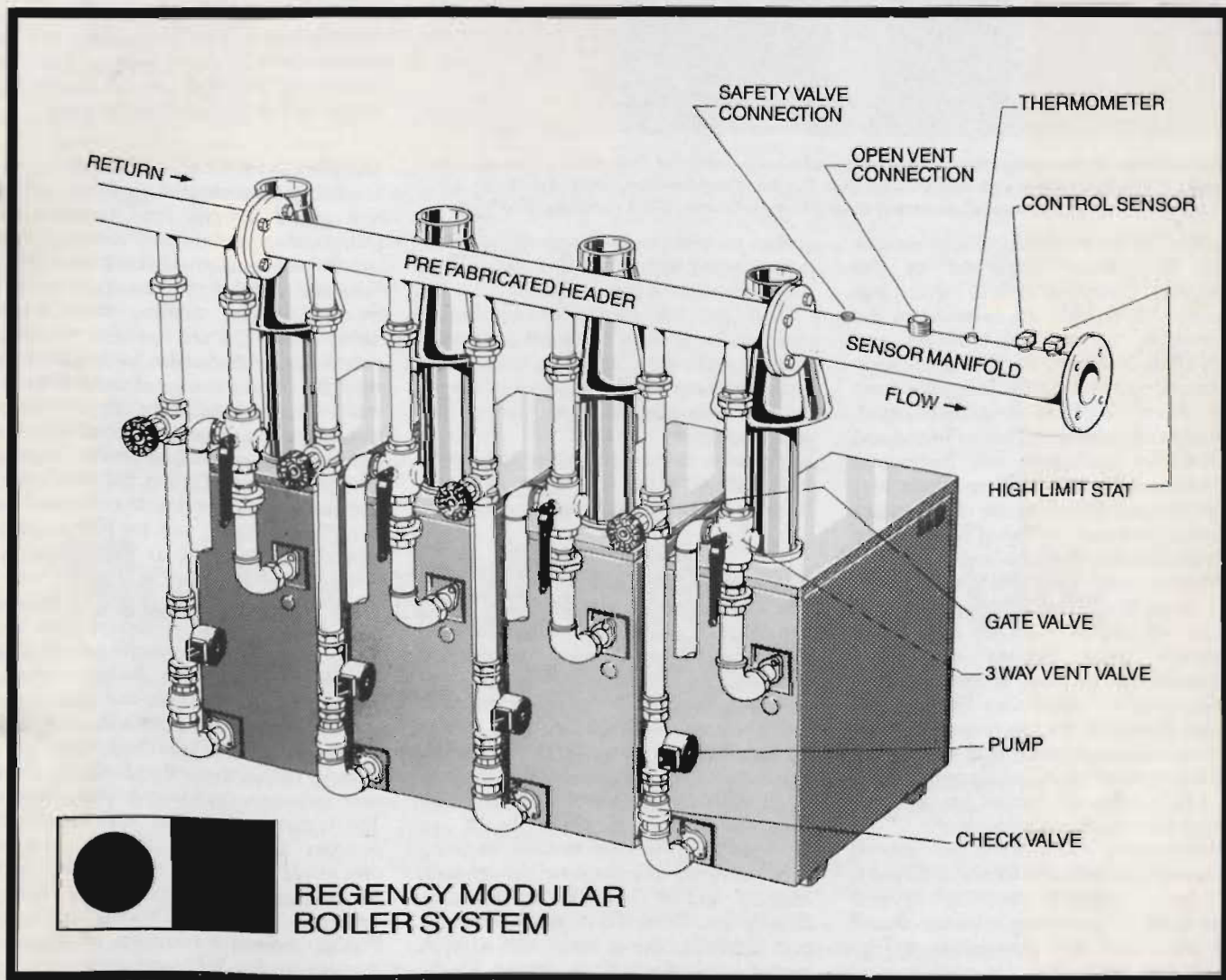


• The Minister for Energy and Communications, Ray Burke, TD, cutting the tape to formally open the European LPG Association's Exhibition in Trinity College, Dublin. With the Minister are Denis Shelly (left), Chairman, Calor Teoranta and President of the Association; Seán Condon, Chief Executive, Condon International, who gave the keynote address; and Dr. Eligio Bo, Italy, the Association's Vice-president.

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Natural Gas — More Than A Substitute Fuel



• Pictured prior to the opening of the international conference on Industrial Utilisation of Natural Gas at the IIRS Conference Centre were (left to right): John Hayden, Chief Executive, IIRS; Ray Burke, TD, Minister for Energy and Communications; and Brian Barry-Duke, Asst. Chief Executive, Irish Gas.

The IIRS Theatre was recently the venue for a 2-day conference sponsored by the European Commission and which was intended to provide an overview of the advantages, current state-of-the-art, and likely future developments in the application of natural gas in industry. Delegates from most states in the Community participated, as well as representatives from Finland and Japan; the Conference was particularly aimed at senior industrial managers who might be considering the use of natural gas or seeking ways of improving the efficiency with which they utilised this fuel.

After an opening address by the Minister for Energy, Ray Burke, TD, the programme began with papers from gas engineering Professor Geoff Roberts of Salford University, Pat Lambert of the European Commission's Natural Gas Division and Simon Blakey of the International Energy Agency, who respectively dealt with present and future situations regarding gas supplies, the EEC's policy for natural gas, and gas pricing considerations respectively.

With present known world gas reserves expected to be sufficient for about 50 years, we have sufficient time to develop techniques for producing substitute natural gas from coal and biomass as well as continuing the search for undiscovered "conventional" reserves and possibly inorganic sources from deep inside the earth's mantle and from gas hydrate deposits. In the shorter term, Professor Roberts predicted that Europe and the USA would become competitors for natural gas imports, most of which will come from the USSR.

The current methods by which gas prices are determined worldwide are more complex than the traditional ones based upon production and transmission costs, and will encourage both exploration and exploitation of new supplies as well as maintaining gas as an attractive fuel option for industry provided that the industrialist

makes an in-depth assessment of the real cost of using fuels rather than simple cost comparisons on a thermal basis.

It is the Commission's intention to maintain the present dominant position of natural gas in the Community energy mix, and in furtherance of that aim they have a policy to encourage integration of national gas networks, a fact of particular significance to the Irish gas industry which looks forward to the time when we can be linked to the UK or European gas grids.

ENVIRONMENTAL ISSUE

The environmental advantages of using natural gas in place of oil or coal, in terms of reduced emissions of oxides of sulphur and nitrogen as well as virtual elimination of soot were ably stated by Dr Frank Shephard. An environmental scientist working at the London Research Station of British Gas plc, Frank hails from Derry and so was claimed by the Irish delegates as one of their own! This was followed by papers by Dr Jan Doelman from Nederlandse Gasunie on the broad technical advantages of natural gas in industry, and by Daniel Vernet of Gaz de France who showed how this fuel can be, and indeed is being, used with a safety record second to none thanks to the development of standards and regulations such as those being produced currently by the National Standards Authority of Ireland.

The first day concluded with a resume of the current R & D works in the various Community nations, the most significant of which seemed to involve mathematical modelling techniques applied to plant design, and the application of the ubiquitous microchip to improve burner control and combustion efficiency.

Day two was devoted to more specific technical topics. Following a summary by Bernard Leveque from France of the various energy efficient methods of using gas for low temperature purposes such as space

heating, drying, and water heating, Stewart Schofield of Strines Textiles Ltd, gave a fascinating case study of the fuel cost savings (currently 30%) being made by replacing gas fired steam boilers by such directly fired systems.

Of particular interest to Irish delegates from the food and dairy industry was a lecture from Karsten Olsen of Dansk Naturgas A/S on the advantages and limitations of natural gas for direct firing of food processing plant, where the development of low NO_x burners reduces the possibility of contamination of food so treated and therefore permits greater fuel efficiency than conventional systems.

COMBINED HEAT AND POWER

The subject of combined generation of heat and power by gas fired turbines and reciprocating engines was covered by Jan van Rijnsoever from Holland, and Roger Forrester detailed the experiences of a Scottish whiskey distillery where a gas turbine-based CHP unit has been installed to provide steam and power for a by-products plant. While cost savings of about 20% were realised, future installations will be designed to minimise the power consumed by the fuel gas compressor and so further improve energy efficiency. During the post-lecture discussion Irish participants contrasted the Scottish experience with the Irish situation which basically acts to discourage the installation of CHP plant.

Dr Neil Fricker of British Gas plc showed how developments in recuperative and regenerative burners, ceramic tube heaters, and advanced furnace design methods, air/gas ratio control, etc can reduce gas consumption in furnaces and other high temperature plant and so make natural gas a cheaper option than other fuels, for which such techniques are usually inappropriate. The lecture programme concluded with Jacques Ribesse of Distrigaz Brussels describing a novel regenerative high temperature air or process gas heating system — the Regate Process, and Louis Portrait showed a two-stage recuperative burner from Gaz de France which will permit greater heat recovery at higher temperatures.

Questions and contributions from the floor, and skilful control by chairmen Tony Carey (Guinness Ireland), Dr Tom McManus (Dept. of Energy), Brian Barry-Duke (Bord Gais) and Tom Quinn (IIRS) added to the undoubted success of the event. Delegates from Irish industry, where natural gas is still largely perceived as simply a substitute for oil for boiler firing, were particularly interested to learn of the ways in which the unique attributes of natural gas can be exploited to reduce costs through improved energy utilisation efficiency. It was a pity that not more of them attended.

CHIMNEYS CHIMNEYS CHIMNEYS CHIMNEYS CHIMNEYS .

Choosing The Correct Liner

Too often neglected and misunderstood, chimneys and flues are an important part of most heating installations. Much has been written about chimneys, but surprisingly little has appeared about liners, yet many thousands are installed annually. In fact, since 1966 British Building Regulations have demanded that all masonry stacks in residential properties be properly lined.

Today, however, there are many thousands of older houses where chimneys are inadequate, with an oversized bore, finished just by lime parging, or the brickwork left bare. This not only results in inefficient operation of the served boiler, stove or fire, but is potentially hazardous, especially where modern heating appliances are installed.

Many thousands of people in the interest of fuel economy and increased comfort have, over the past 10 years, been upgrading



By Paul Gordon, Marketing Director, Rite-Vent Ltd.

their heating systems. If maximum efficiency, however, is to be achieved with modern closed appliances safely, a properly designed chimney is essential. This is no problem in new properties where building regulations dictate precise requirements taking into account the fuel to be used. In older houses, however, it nearly always means that the existing stack has to be lined, in some cases even rebuilt.

There are many options

open to the professional installer as to how to upgrade the chimney when putting in a new appliance, but which lining system should be chosen is not such an easy decision. The current UK Building Regulations are very helpful. BS 6461 Part 1 and 2 1984 are the codes of practice for factory-made and masonry chimneys and flue pipes. In Appendix A to this code, advice is given for remedial action for difficult chimneys, it states:

"In houses built before 1966, chimney flues were usually lined with lime mortar parging. Where such chimneys are exposed on outside walls, and especially when serving modern high efficiency closed appliances, such as domestic hot water boilers which can be operated at low outputs for long periods, the parging is liable to deteriorate in time, exposing the brickwork or masonry to flue gases. Damage to the chimney

fabric can then result from the effects of condensation of the water vapour and acidic products of combustion, and also from acidic salts in the brickwork. This is outlined in 4.4.

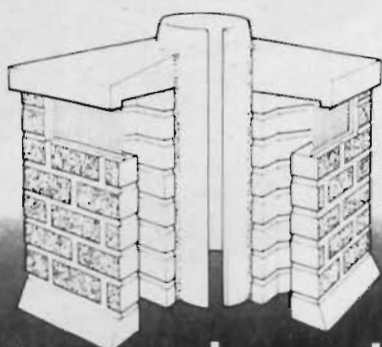
"In some cases, condensation will penetrate the brickwork of the chimney and will stain plaster and inside decorations. This usually shows as damp stains or even tarry patches, often with an unpleasant smell, on walls and ceilings adjacent to an outside chimney, especially in rooms on upper floors.

"In very bad cases of damage caused to the chimney structure — e.g. severe cracks in the walls of the chimney, leaning or disintegrating chimney stack, or very bad wall staining — it may be necessary to rebuild part or all of the chimney, in which case the recommendations in this code for the construction and lining of

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chimneys should be observed to guard against a repetition of such trouble.

"Where damage has not caused the chimney to become structurally unsafe or where it is considered prudent to protect the chimney fabric from possible deterioration in the future, less costly methods can be adopted to repair or protect an existing chimney, but each involves applying a suitable form of lining to the flue to protect the brickwork and mortar joints from the products of combustion. Wherever possible, insulation of the flue against excessive heat loss should also be incorporated to reduce the incidence of condensation."

The British Standard describes materials suitable for flue linings, which include both rigid and flexible systems. In both cases these meet the criteria for a good liner, namely they are anti-corrosive, durable, resistant to thermal shock and mechanical cleaning, and on their own or in conjunction with an infill, provide a good level of thermal insulation.

Rigid liners are available in clay; additionally specially-formulated mixes including high temperature kiln burnt aggregate and alumina cement as employed in Rite-Vent's Parkalina. Suitable for lining or re-lining masonry chimneys serving domestic heating systems burning coal, coke, wood and peat in closed appliances, or open fires — these are tested to 1100°C.

The British Building Regulations also point out in Appendix A that thin gauge stainless steel flexible convoluted linings to BS 715 are suitable for existing brickwork chimneys serving gas fired Class II appliances. These must not be used for coal, wood or oil.

As important to the selection and installation of the correct liner (or chimney) is that they are regularly inspected and cleaned. It is recommended that they be swept once a year, twice where coal and coke is being burnt, as often as once a month where wood is employed.

To summarise, never use a Class II liner (or flue) for a Class I appliance.

Achieving The Right Balance



• An example of one of the many fine systems from Monodraught. Davies of Fairview have full details.

The Monodraught balanced-flue chimney system that was first established in Dublin and other parts of Ireland in 1980, is now being stocked by Davies of Richmond Avenue, Fairview. The Monodraught systems are made in a wide range of 22 sizes and finishes to cater for boilers from 6" flue pipes up to large 30" flue diameter industrial applications. The range of systems Davies now mainly stock are the middle commercial range to suit boilers up to 1 million Btu/hr output, where the complete Monodraught balanced-flue chimney system can be provided for a cost of approximately £500.

The standard Monodraught chimney is just 3 ft high and works on the vertical balanced-flue principle by taking all the air for combustion and ventilation through air intakes at the top of the chimney, directly under the capping, and air ducts convey this combustion air down into the boiler house below. Because the air intakes and the flue outlet are nominally in the same position, the Monodraught system guarantees to eliminate downdraught, regardless of any higher surrounding buildings and therefore the need for tall expensive chimney stacks is completely eliminated.

With the introduction of natural gas to Ireland, the Stelrad high-efficiency Ideal Concord Super boiler is proving to be a market leader and Stelrad have produced a special leaflet showing the

but also adds to the high-efficiency potential for this appliance.

LPG (Calor Gas) also benefits greatly from the Monodraught application, since it means that any conventional flued boiler can be converted into a balanced-flue condition, provided the boiler can be sited into a single storey boiler house. Since balanced-flue combustion which therefore eliminates many of the problems of smoke and soot resulting from poor combustion.

The Monodraught systems are available in stone, brick or glassfibre finish and in a wide range of colours individually produced to match the fabric colour of the building. Despite this "hand made" approach, the cost of the Monodraught system is often less than a third of any other traditional or conventional chimney system.

Full details are available from Kevin Long of Davies Builders Providers, 6/8 Richmond Road, Fairview, Dublin 3, (Tel: 376076).



• The range of Monodraught chimney systems is available from Davies of Fairview.

CHIMNEYS CHIMNEYS CHIM

'Block' System from Selkirk

Selkirk Block is a patented pre-fabricated factory-made modular chimney. The system utilises a 200 mm internal diameter ceramic liner within a glass fibre reinforced cement shell. It is designed to provide effective flue gas venting over any fuel burning appliance, particularly those generating excessive temperatures and corrosive conditions.

Because the outer shell is very strong, components are able to utilise a light weight insulating concrete between the liner and shell.

The block system is capable of withstanding continuous flue gas temperatures of 760°C and has undergone thermal shock tests to 1100°C, being typical of chimney fire conditions. The ceramic is capable of withstanding temperatures of 1280°C. Like any chimney, the Block system must be regularly swept.

Both the liner and the shell have their own Selkirk

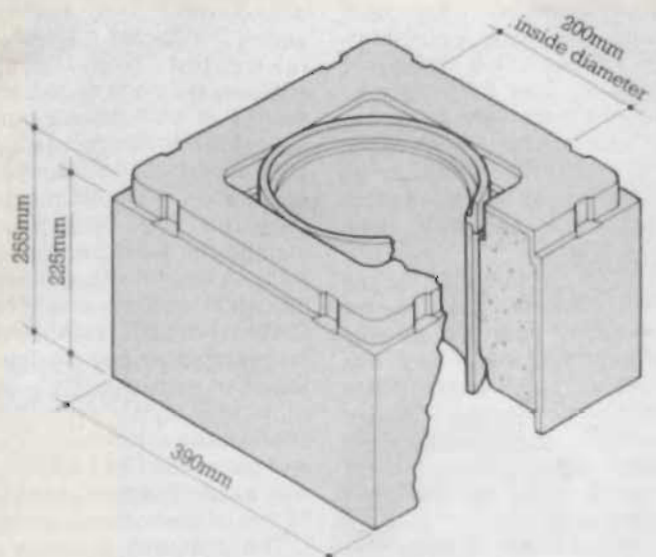
provided sealant which is easily applied. In essence, the chimney is a dry, constructed system for internal and external use. The outer shell surface is completely waterproof and does not require additional treatment, but can be decorated if required.

The chimney can be used with the Selkirk Precast Chamber and must be supported on traditional foundations.

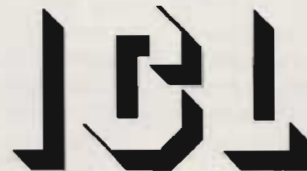
The traditional appearance and modular design of the Block chimney enables it to blend with and have a life equal to that of new and existing buildings.

The Selkirk Block chimney system has been assessed by the British Board of Agrément and has been granted certificate number 86/1710.

Further details from Hevac Ltd, Ballymount Rd., Clondalkin, Dublin 22, (Tel: 519411).



Weight per standard block: 24kg
Weight per metre run: 106kg



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ICL — 25 Years Experience

ICL chimneys have been in use for more than 25 years. Since the company came to Ireland, the range of chimney systems has been expanded considerably. Today solutions can be offered for most of the applications encountered on the industrial and domestic scene.

ICL chimneys are sold in Ireland, the UK and in Continental Europe, where its ceramic lined chimney is becoming very popular. Fifty per cent of the company's sales are now of this type. As heating systems become more efficient, flue temperatures are lower, resulting in draught and acid corrosion problems in the chimney.

ICL's patented lightweight ceramic, because of its inert fibrous alumino-silicate structure, is impervious to acid attack and has excellent insulation properties.

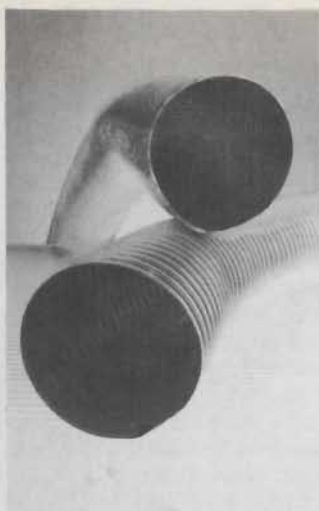
A recent development has been the company's expansion into industrial chimneys. Brendan Bracken has joined

the company as Sales Manager, bringing with him a wealth of experience in this area. Brendan looks forward to helping ICL become a major force in chimneys both in Ireland and abroad.

The next stage in the company's program is the introduction of a lightweight ceramic lined concrete chimney system. This will be aimed at the market for new houses where the chimney can be accommodated into the overall building design. It will be in keeping with modern building trends, toward the use of factory made components requiring minimum on-site labour. It will also eliminate the hit and miss element involved in building masonry chimneys.

ICL looks forward confidently to the future in spite of the recession-hit building industry.

Insulated Chimney (Trim) Ltd, Summerhill Road, Trim, Co Meath, (Tel: 591241/975984; 046 31604/31647).



• Fully flexible, suitable for all fuels, the double-skinned Rite-Vent Chimflex LW is manufactured in 316 stainless steel. The tough outer casing is designed to withstand the rough handling associated with building site work, the smooth inner surface to aid the passage of combustion products.



• One of the most widely used products for lining and relining masonry chimneys is the Rite-Vent Parkalina. Produced from a kiln burnt aggregate and high alumina cement, it is robust and can withstand considerable abuse, including chimney fires, and is tested to 1100°C.

Biggest Range from Rite-Vent

In its 31st year Rite-Vent today produces chimneys and flues for residential, commercial and industrial applications. The biggest series available from any company in Europe, its products are increasingly being installed throughout Ireland.

Undoubtedly, the best seller is the company's Parkaflue. This Class 1 chimney has a remarkable record, as although in production for over 17 years, with many thousands installed, not a single failure in service has ever been recorded.

The Parkaflue, built for use with all fuels, has a dense refractory liner that actually strengthens under heat. For safety and combustion efficiency between its inner section and the stainless steel (or galvanised) outer casing, is a high efficiency thermal barrier.

Suitable for all fuels and specifically approved by British Gas, with the Parkastack a house chimney can be completed in a fraction of the time needed to build one in traditional brick. Consisting of a modular series of kiln burnt clay and cement blocks, these

incorporate a liner of the same patented refractory material as the Parkaflue.

Produced under exclusive licence to British Gas the Instaduct, allows gas fires to be installed in previously chimneyless homes quickly and economically with minimum inconvenience to occupants. The system which includes a pre-fabricated breast, all chimney pipe and necessary fittings is also increasingly being put into new properties.

Commercial and industrial application products manufactured by Rite-Vent include the Maxflow, a twin wall gas vent for commercial/industrial applications. The Class 1 ICID twin wall insulated chimney system, together with the ICIC. Of triple skin construction, the latter has an aluminium outer and galvanised inner casing, with a stainless steel liner and 76 mm of thermal insulation.

The company provides a full series of chimney liners including its new flexible double skin Chimlex LW for all fuel use.

Further details from C&F Ltd, Unit G7, Chapelizod Industrial Estate, Dublin 20, (Tel: 264917).



PREFABRICATED CHIMNEYS FROM HEVAC

HEVAC LTD. recently completed the Design, Supply and Erection of the Flues at the Mater Hospital (Right).

The Design is on the Open Mast System, incorporating 3 Stainless Flues 350mm. diam. and one Stainless Flue of 450mm. diam.

Once again the combination of Ireland's Largest Heating Distributor (HEVAC LTD.) and the World's No. 1 Manufacturer of Prefabricated Flues (SELKIRK LTD.) provide all the answers regarding Design, Technical Specification, Installation and Back-up After Sales Service.



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The word from inside is...

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PARKAFLUE CHIMNEY

The tried and tested chimney with the proven track record. Developed over fifteen years with continual refinement and improvement.

The chimney which has proven itself again and again.

Incorporating a unique dense refractory concrete liner which strengthens at high temperature to form a ceramic bond.

A superb socketted and spigotted jointing system designed to run any condensates down the chimney.

A high quality patented insulation system which ensures the chimney is insulated continuously for its entire height thus eliminating hot spots.

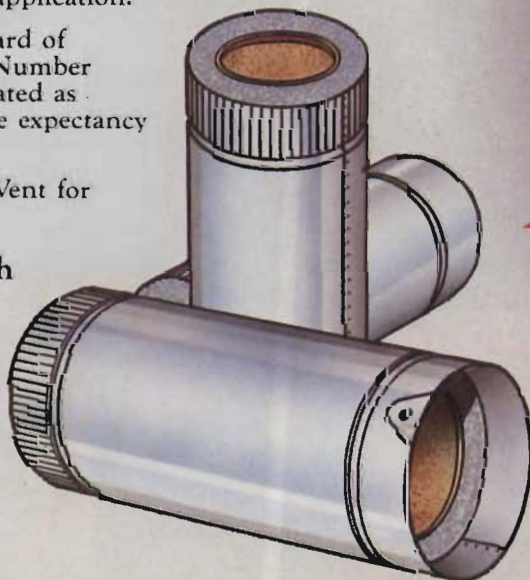
Galvanised steel or stainless steel outer casing for internal or external application.

The Parkaflue chimney is compatible with all modern heating appliances—gas, oil, solid fuel and wood and is particularly suitable for open fire application.

Carrying British Board of Agreement Certificate Number 84/1259 Parkaflue is rated as having a minimum life expectancy of sixty years.

Guaranteed by Rite-Vent for ten years.

Use Parkaflue with confidence . . . the solid fuel chimney with the proven track record.



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